

# VIDEOCAMERA DI RETE

Manuale utente

QND-8011

QND-8021



# Videocamera di rete

## Manuale utente

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❖ Il progetto e le specifiche sono soggetti a modifiche senza preavviso.

❖ Il nome utente iniziale dell'amministratore è "admin" e la password deve essere impostata quando viene effettuato l'accesso per la prima volta.

Cambiare la propria password ogni tre mesi per proteggere efficacemente le informazioni personali e per evitare danni causati dal furto delle informazioni personali.

Tenere presente che la sicurezza e qualunque problema causato dalla cattiva amministrazione della password, sono responsabilità dell'utente.

## ISTRUZIONI DI SICUREZZA IMPORTANTI

1. Leggere queste istruzioni.
2. Conservare queste istruzioni.
3. Rispettare tutti gli avvertimenti.
4. Seguire tutte le istruzioni.
5. Non utilizzare questo apparecchio vicino all'acqua.
6. Pulire l'area contaminata sulla superficie del prodotto con un panno soffice e asciutto o con uno straccio. (Non usare un detergente o prodotti cosmetici contenenti alcol, solventi o tensioattivi o costituenti di olii in quanto potrebbero deformare o danneggiare il prodotto).
7. Non bloccare nessuna apertura di ventilazione. Installare seguendo le istruzioni del fabbricante.
8. Non installare vicino a fonti di calore quali caloriferi, stufe o altri prodotti (compresi gli amplificatori) che possano produrre calore.
9. Non eludere il sistema di sicurezza della spina polarizzata o a terra. Una spina polarizzata è costituita da due spinotti, uno più grande dell'altro. Una spina con presa a terra ha due spinotti e un terzo per la presa a terra. Lo spinotto più grande o il terzo spinotto sono stati previsti per la vostra sicurezza. Se la spina fornita non entra nella presa, mettersi in contatto con l'elettricista per la sostituzione della presa obsoleta.
10. Proteggere il cavo dell'alimentazione per evitare che sia calpestato o schiacciato, facendo particolare attenzione alle spine, alle prese e al punto in cui i cavi escono dell'apparecchio.
11. Utilizzare solo connettori/accessori indicati dal fabbricante.
12. Utilizzare solo carrelli, supporti, treppiedi, staffe o tavoli consigliati dal produttore o venduti assieme all'apparecchio. Qualora si utilizzi un carrello, spostare il gruppo carrello/apparecchio con attenzione per evitare che si ribalti provocando incidenti.
13. Durante forti temporali o se non viene utilizzato per lunghi periodi di tempo, scollegare l'apparecchio dall'alimentazione elettrica.
14. Rivolgersi a personale specializzato per qualsiasi riparazione.  
Le riparazioni sono richieste quando l'apparecchio viene in qualche modo danneggiato, ad esempio quando viene danneggiato il cavo di alimentazione o la spina, se è stato versato qualche liquido nell'apparecchio o vi sono caduti degli oggetti o se è stato esposto alla pioggia o all'umidità, se non funziona normalmente o se è caduto.
15. Questo prodotto deve essere alimentato da un'Unità di alimentazione elencata contrassegnata "Classe 2" o "LPS" e omologata per PoE (48 V), 0,11 A.
16. Questo prodotto richiede un'alimentazione che sia elettricamente isolata.
17. Se si applica una pressione eccessiva durante l'installazione del prodotto, la telecamera potrebbe danneggiarsi e funzionare male.  
Se il prodotto è installato forzatamente utilizzando prodotti non conformi, il prodotto potrà danneggiarsi.
18. Non installare il prodotto in un luogo in cui sono presenti o potrebbero essere generate sostanze chimiche o miscele d'olio. Poiché gli oli commestibili come l'olio di soia possono danneggiare o deformare il prodotto, non installarlo nella cucina o vicino al tavolo della cucina.  
Ciò potrebbe provocare danni al prodotto.
19. Durante l'installazione del prodotto, prestare attenzione a non far macchiare la superficie con la sostanza chimica.  
Alcuni solventi chimici come detersivi o adesivi potrebbero causare gravi danni alla superficie del prodotto.
20. Se il prodotto viene installato/smontato in una modalità che non è stata raccomandata, le funzioni/performance della produzione potrebbero non essere garantite.  
Installare il prodotto facendo riferimento a "Installazione e collegamento" nel manuale utente.
21. L'installazione o l'utilizzo del prodotto in acqua può causare gravi danni allo stesso.
22. Anche se un rapido cambiamento di temperatura potrebbe causare il congelamento all'interno della cupola, non ci saranno problemi con il video.



## AVVERTENZA

PER RIDURRE IL RISCHIO DI INCENDIO O DI SCOSSA ELETTRICA, NON ESPORRE L'APPARECCHIO A PIOGGIA O A UMIDITÀ. NON INSERIRE OGGETTI METALLICI ATTRAVERSO LE GRIGLIE DI VENTILAZIONE O ALTRE APERTURE DELL'APPARECCHIATURA.

Non schizzare o sgocciolare liquidi sull'apparecchio e non porre su di esso oggetti contenenti liquidi, come ad esempio vasi di fiori.

Per evitare lesioni personali, questo apparecchio deve essere fissato saldamente a una parete/al soffitto seguendo le istruzioni per l'installazione.

## ATTENZIONE



## SPIEGAZIONE DEI SIMBOLI GRAFICI



Il simbolo del fulmine con la freccia all'interno del triangolo avverte l'utente della presenza di una "tensione pericolosa" all'interno del prodotto, che può essere di intensità sufficiente per costituire un rischio di scossa elettrica alle persone.



Il simbolo del punto esclamativo all'interno del triangolo avverte l'utente della presenza di importanti istruzioni di funzionamento e manutenzione nella documentazione che accompagna il prodotto.

## Prodotto di classe I

Un apparecchio di classe I viene connesso alla presa di RETE con una connessione di messa a terra di sicurezza.

## Batteria

Le batterie(pacco batterie o batterie installate) non devono essere esposte a eccessivo calore, come luce del sole, fuoco o simili.

La batteria non è sostituibile.

## Scollegamento del dispositivo

Scollegare la spina di alimentazione dall'apparecchio, se difettoso. Quindi contattare il centro di assistenza più vicino.

**Se l'apparecchio viene utilizzato al di fuori degli Stati Uniti, servirsi di cavi con codice HAR di un produttore riconosciuto.**

## ATTENZIONE

Rischio di esplosione se la batteria è sostituita con una batteria di tipo non corretto. Smaltire le batterie usate attenendosi alle istruzioni.

Queste istruzioni di manutenzione devono essere utilizzate esclusivamente da personale di assistenza qualificato.

Per ridurre il rischio di scosse elettriche non eseguire interventi di manutenzione diversi da quelli indicati nelle istruzioni per l'uso a meno di essere in possesso della qualifica adatta a tale scopo.

Utilizzare l'alimentazione in ingresso con una sola telecamera; gli altri dispositivi non devono essere collegati.

**L'apparecchiatura informatica (ITE) deve essere collegata solo a reti PoE senza instradamento all'impianto esterno.**

Leggere attentamente le seguenti precauzioni di sicurezza raccomandate.

- Non collocare l'apparecchio su superfici irregolari.
- Non installare su superfici esposte alla luce diretta del sole, vicino a fonti di calore o a zone di freddo intenso.
- Non collocare l'apparecchio vicino a materiali conduttivi.
- Non tentare di effettuare personalmente interventi di assistenza sull'apparecchio.
- Non collocare bicchieri d'acqua sul prodotto.
- Non installare vicino a sorgenti magnetiche.
- Non ostruire le aperture per la ventilazione.
- Non appoggiare oggetti pesanti sul prodotto.
- Usare guanti protettivi quando si installa o rimuove la telecamera.  
L'elevata temperatura della superficie del dispositivo potrebbe causare ustioni.

Il manuale utente è una guida all'uso dei prodotti.

I simboli utilizzati nel manuale hanno i seguenti significati.

- Riferimento : Fornisce informazioni sull'uso del prodotto
- Avvertenza : Se vi è la possibilità di danni a persone o oggetti provocati dalla mancata osservanza delle istruzioni

✖ Per ragioni di sicurezza, leggere questo manuale prima di utilizzare il prodotto e conservarlo in un luogo sicuro.

In determinati ambienti di installazione, potrebbero esserci interferenze nelle comunicazioni radio. Quando si verificano interferenze di onde elettromagnetiche tra il prodotto e il dispositivo di comunicazione radio, si raccomanda di mantenere una certa distanza tra i due o di cambiare la direzione dell'antenna ricevente.

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SPECIFICHE PC CONSIGLIATE

- CPU : Intel(R) Core(TM) i7 3.4 GHz o superiore
- RAM : 8G o superiore
- Sistema operativo supportato : Windows 7, 8.1, 10, Mac OS X 10.12, 10.13, 10.14
- Browser consigliato : Google Chrome
- Browser supportati : MS Explorer 11, MS Edge, Mozilla Firefox (solo Window 64bit), Apple Safari (solo Mac OSX)
- VGA : Scheda grafica PCIe 256MB GDDR3 o superiore

※ Fare riferimento all'appendice per informazioni dettagliate sulla versione del SO e browser verificato.

SPECIFICHE RACCOMANDATE PER LA SCHEDA DI MEMORIA MICRO SD/SDHC/SDXC

- Spazio consigliabile : Da 16GB a 128GB (Tipo MLC)
- Produttori consigliati : SanDisk, Transcend
- Tipologia di prodotto: Alta resistenza
- La compatibilità varia in base al produttore e alla tipologia della scheda.

SPECIFICHE NAS CONSIGLIABILI

- Spazio consigliabile : È consigliabile disporre di uno spazio di 200GB o superiore.
- Accesso simultaneo : Una singola unità NAS è in grado di accettare fino ad un massimo di sedici telecamere in entrata.
- Per questa telecamera, si consiglia di utilizzare una NAS con le seguenti specifiche tecniche del fornitore.

| Prodotti raccomandati | Dimensioni disponibili                                                   |
|-----------------------|--------------------------------------------------------------------------|
| QNAP NAS              | Supporta fino ad un massimo di 16 telecamere in entrata simultaneamente. |
| Sinologia NAS         | Supporta fino ad un massimo di 16 telecamere in entrata simultaneamente. |



▪ Quando si utilizza l'apparecchiatura NAS di Netgear, è consigliabile non stanziare lo spazio disponibile per l'uso.

ACCESSORI FORNITI

Verificare che nella confezione siano contenuti la videocamera e tutti gli accessori.  
(In base al Paese di residenza, gli accessori potrebbero variare.)

| Aspetto                                                                           | Articolo                               | Quantità | Descrizione                                                    |
|-----------------------------------------------------------------------------------|----------------------------------------|----------|----------------------------------------------------------------|
|  | Videocamera                            | 1        |                                                                |
|  | Guida Rapida<br>(opzionale)            | 1        |                                                                |
|  | Certificato di garanzia<br>(opzionale) | 1        |                                                                |
|  | Sagoma                                 | 1        | Guida all'installazione del prodotto                           |
|  | Chiave a L                             | 1        | Utilizzato per rimuovere e sostituire il<br>coperchio a cupola |

Accessori opzionali per l'installazione

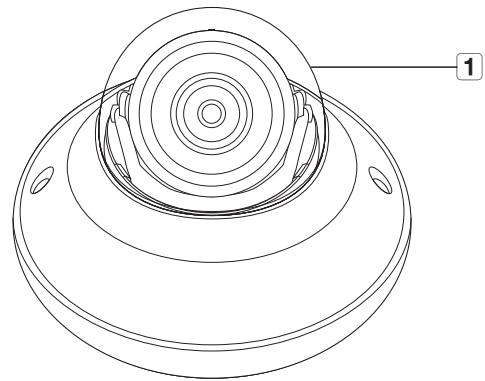
Per un'installazione più semplice, è possibile acquistare i giusti accessori opzionali disponibili.



| Nome del modello | Montaggio a parete |
|------------------|--------------------|
| QND-8011/8021    | SBP-120WMW         |

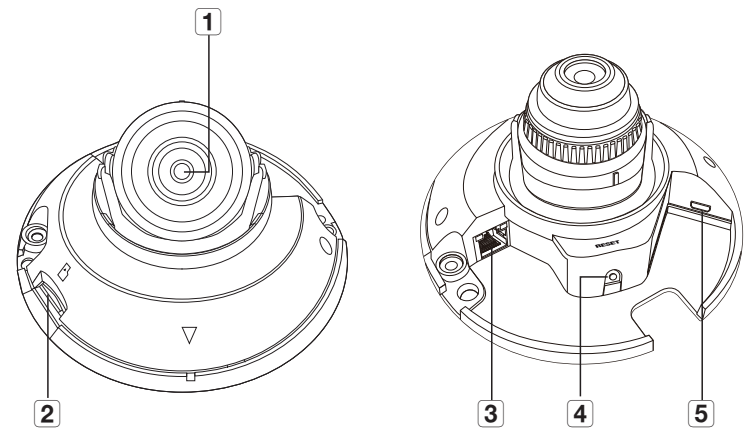
SGUARDO D'INSIEME

Aspetto



| Voce                       | Descrizione                                                           |
|----------------------------|-----------------------------------------------------------------------|
| 1 Coperchio per la sommità | Coperchio utilizzato per proteggere l'obiettivo e l'unità principale. |

Componenti



| Voce                                       | Descrizione                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 Obiettivo                                | Obiettivo della telecamera.                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 2 Alloggiamento scheda di memoria Micro SD | Alloggiamento per la scheda di memoria Micro SD.                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 3 Connettore PoE                           | Si collega alla rete e fornisce energia elettrica tramite il cavo Ethernet.                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 4 Tasto Reset                              | <p>Il pulsante ripristina tutte le impostazioni della videocamera all'impostazione predefinita. Tenere premuto per circa 5 secondi per riavviare il sistema.</p> <p>❗ Se si resetta la videocamera, le impostazioni di rete vengono regolate in modo da poter abilitare il DHCP. Se non esiste un server DHCP nella rete, eseguire il programma IP Installer per cambiare le impostazioni di rete di base come l'indirizzo IP, la subnet mask, il gateway, ecc., prima di collegarsi alla rete.</p> |
| 5 porta micro HDMI                         | Per visualizzare il feed della telecamera, collegare al monitor tramite cavo HDMI maschio/femmina.                                                                                                                                                                                                                                                                                                                                                                                                  |

## INSTALLAZIONE

### Precauzioni prima dell'installazione

Prima di installare la videocamera, assicurarsi di aver letto le seguenti istruzioni:

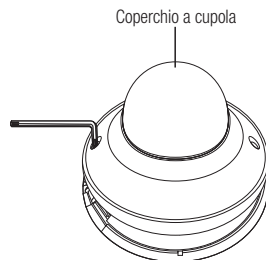
- Deve essere installato nell'area (soffitto o parete) in grado di sostenere un peso 5 volte superiore a quello della telecamera, incluso il supporto di installazione.
- I cavi bloccati o spelati possono danneggiare il prodotto o provocare incendi.
- Per motivi di sicurezza, allontanare tutte le persone dal luogo di installazione. E, se necessario, disporre le proprie cose lontano dal sito.

### Smontaggio

Allentare le viti ruotandole in senso antiorario con la chiave a L in dotazione e rimuovere il coperchio a cupola.

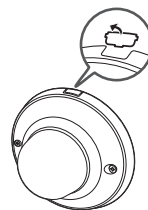
- Osservare che non è necessario allentare completamente la vite.

-  ■ Non toccare la parte trasparente del coperchio a cupola una volta che la pellicola protettiva è stata rimossa.



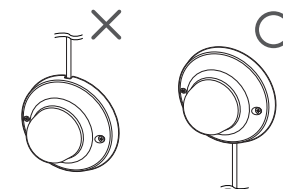
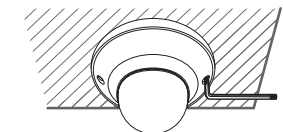
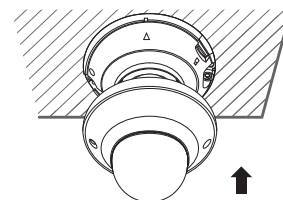
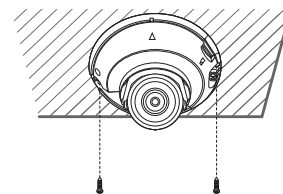
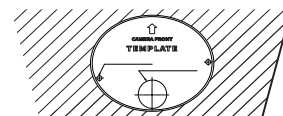
### Installazione

1. Considerare la direzione da monitorare, collegare il modello e praticare i fori seguendo il modello.
  - Posizionare la telecamera di modo che il segnale <  > stampato sul fronte della telecamera, sia diretto verso l'area da monitorare.
2. Utilizzando due viti autofilettanti, fissare la telecamera ai due fori praticati con una mascherina.
3. Collegare il terminale interno della telecamera al cavo corrispondente.
4. Regolare l'obiettivo nella direzione desiderata facendo riferimento alla sezione **"Regolazione della direzione di monitoraggio della videocamera"**. (pagina 10)
  - ! ■ Vi suggeriamo di non toccare gli obiettivi della telecamera in quanto gli stessi sono stati focalizzati correttamente nel processo di fabbricazione definitivo. In caso contrario, gli obiettivi potrebbero diventare sfocati o essere sporcati da sostanze estranee.
5. Coprire il coperchio a cupola e fissarlo ruotando le viti in senso orario con la chiave a L.
  - Se necessario, rimuovere il coperchio dei fori di cablaggio sulla parte laterale del coperchio a cupola da utilizzare.

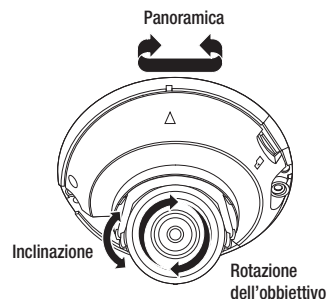


### ■ Montaggio a parete (IP42)

Per il montaggio a parete della telecamera, inserire il cavo LAN da collegare dal basso come illustrato per assicurare un'adeguata protezione contro polvere e liquidi.



## Regolazione della direzione di monitoraggio della videocamera



### Regolazione della direzione di monitoraggio

È possibile regolare la direzione della videocamera solo quando la videocamera è fissata al soffitto. La rotazione dell'unità telecamera a destra o sinistra è definita Panoramica, la regolazione dell'inclinazione è definita Inclinazione e la rotazione dell'obiettivo sul suo asse è definita Rotazione.

- La panoramica ha un campo effettivo totale di 350 gradi.
- La rotazione ha un campo effettivo totale di 355 gradi.
- L'inclinazione ha un campo effettivo totale di 69 gradi.



- L'immagine del filmato potrebbe essere coperta dalla custodia della telecamera, a seconda dell'angolo.

### Metodi di regolazione

1. Dopo l'installazione della videocamera, regolare l'angolo di rotazione orizzontale in base alla direzione di monitoraggio.
2. Impostare l'angolo orizzontale di modo che l'immagine non sia capovolta.
3. Regolare l'angolo di inclinazione in modo la videocamera sia rivolta verso l'oggetto da monitorare.

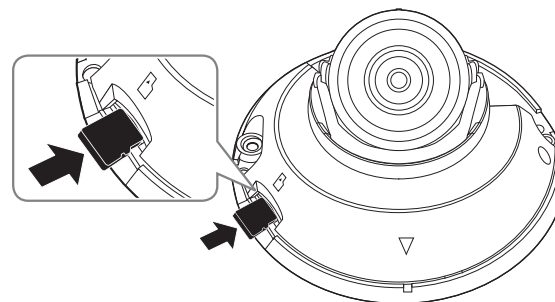
## INSERIMENTO/ESTRAZIONE DI UNA SCHEDA DI MEMORIA MICRO SD



- Scollegare il cavo di alimentazione dalla videocamera prima di inserire la scheda di memoria Micro SD.
- Non inserire, forzandola, la scheda di memoria Micro SD se è a rovescio. Altrimenti potrebbe danneggiarsi.
- Quando piove e si ha un alto livello di umidità, non è consigliabile inserire o estrarre una scheda Micro SD.

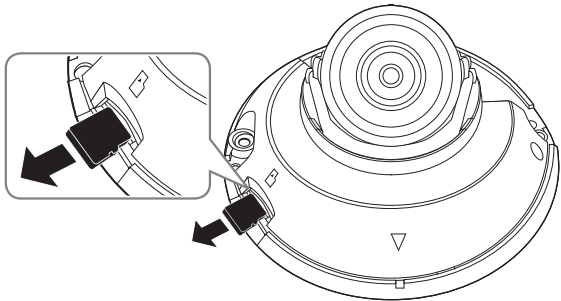
### Inserimento di una scheda di memoria Micro SD

1. Separare il coperchio Dome della telecamera.
2. Inserire la scheda Micro SD nel verso della freccia raffigurata nell'immagine.



Rimozione di una scheda di memoria Micro SD

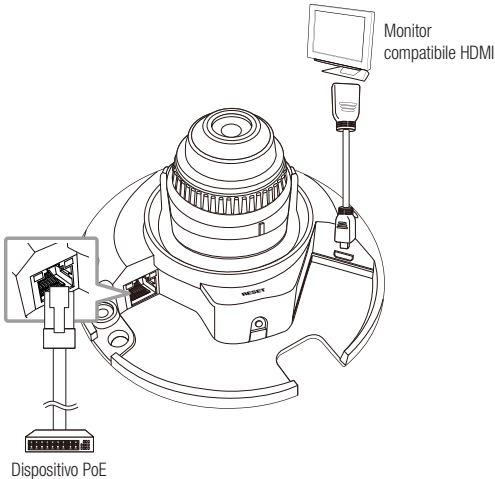
Premere delicatamente sulla fine esposta della scheda di memoria come mostrato nel diagramma per espellere la scheda di memoria dallo slot.



- Se si esercita una pressione eccessiva sulla scheda di memoria Micro SD, quando la si rilascia questa può saltare fuori dallo slot in modo incontrollato.
- Prima di rimuovere la scheda di memoria SD, spegnere la telecamera o andare nella sezione <Memorizz.>, spegnere il dispositivo e premere il pulsante [Applica].
- Se si spegne la telecamera o si rimuove la scheda di memoria Micro SD che contiene i dati del prodotto, i dati potrebbero andare persi o danneggiati.

ALIMENTAZIONE E FUNZIONI DI RETE

Collegare una telecamera ad un'apparecchiatura PoE.



- Collegare a un connettore per il router PoE (Power over Ethernet) abilitato per il PoE.
- Utilizzare un PoE (Power over Ethernet) compatibile con i protocolli IEEE802.3af.

Caratteristiche tecniche del cavo di rete

| Unità            | Contenuti    | Osservazione              |
|------------------|--------------|---------------------------|
| Connettore       | RJ45         |                           |
| Ethernet         | 10/100BASE-T | 10/100 Mbps               |
| Cavo             | Categoria 5e |                           |
| Distanza massima | 100M         | Resistenza DC ≤ 0.125 Ω/m |
| Supporto PoE     | IEEE 802.3af |                           |

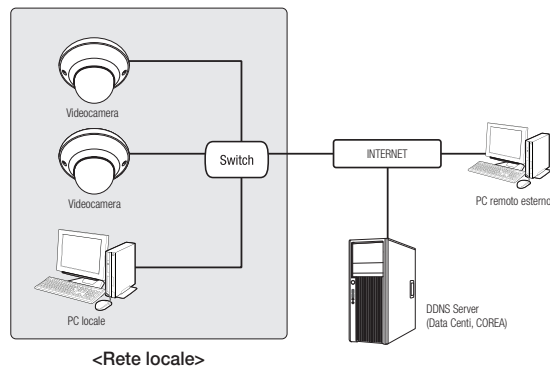
- Se si utilizza un cavo di categoria diversa dalla 5e, la distanza di trasmissione di 100 metri potrebbe non essere garantita.

E' possibile impostare le impostazioni di rete secondo le configurazioni di rete.

### COLEGARE LA VIDEOCAMERA DIRETTAMENTE ALL'AREA LOCALE DELLA RETE

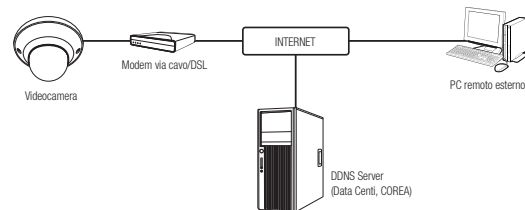
#### Collegare la videocamera da un PC locale nella LAN

1. Lanciare un browser internet sul PC locale.
2. Inserire un indirizzo IP della fotocamera nella barra dell'indirizzo del browser.



- Un PC remoto in un internet esterno fuori dalla rete LAN può non essere in grado di collegarsi alla fotocamera installata nell'intranet se l'inoltro della porta non è correttamente impostato o c'è un firewall. In questo caso, per risolvere il problema, contattare l'amministratore di rete.
- Nell'installatore del IP, è possibile usare la password predefinita "**4321**" per impostare l'indirizzo IP, la Subnet Mask, la Gateway, la porta HTTP, la porta VNP e il tipo di IP. Dopo aver cambiato l'interfaccia della rete, per assicurare una migliore sicurezza, accedere al visualizzatore del web e cambiare la password.
- Per impostazione predefinita, l'indirizzo IP viene assegnato automaticamente dal server DHCP. In assenza di un server DHCP disponibile, l'indirizzo IP è impostato su 192.168.1.100. Per cambiare l'indirizzo IP, utilizzare IP Installer. Per ulteriori dettagli sull'uso di IP Installer, vedere "**Impostazione dell'IP statico**". (Pagina 13)

### COLLEGAMENTO DELLA VIDEOCAMERA DIRETTAMENTE AD UN MODEM VIA CAVO/DSL DHCP

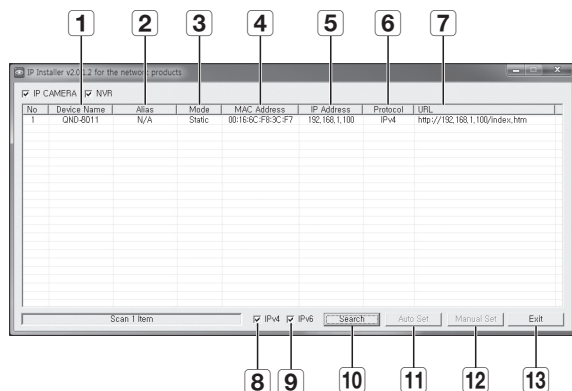


1. Collegare il PC utente direttamente alla rete della telecamera.
2. Eseguire il programma IP Installer e modificare l'indirizzo IP della videocamera in modo da poter utilizzare il browser Web sul desktop per collegarsi a Internet.
3. Utilizzare il browser Internet per collegarsi al visualizzatore Web.
4. Passare alla pagina **[Configurazione]**.
5. Passare a **[Rete] – [DDNS]** e configurare le impostazioni DDNS.
6. Andare a **[Basic] – [IP & Porta]**, e impostare il tipo di IP su **[DHCP]**.
7. Collegare la videocamera rimossa dal PC direttamente al modem.
8. Riavviare la videocamera.



- Per informazioni su come impostare il DDNS fare riferimento alla guida online di Web Viewer.
- Per informazioni su come impostare il formato IP fare riferimento alla guida online di Web Viewer.

## TASTI UTILIZZATI IN IP INSTALLER



| Voce                           | Descrizione                                                                                                                                                                                            |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b> Device Name           | Nome del modello della videocamera collegata.<br>Fare clic sulla colonna per ordinare l'elenco in base al nome del modello.<br>Tuttavia, facendo clic durante la ricerca, questa viene arrestata.      |
| <b>2</b> Alias                 | Al momento questa funzione non è implementata.                                                                                                                                                         |
| <b>3</b> Mode                  | Visualizza <Static> o <Dynamic> per l'attuale stato di connessione alla rete.                                                                                                                          |
| <b>4</b> MAC(Ethernet) Address | Indirizzo Ethernet della videocamera collegata.<br>Fare clic sulla colonna per ordinare l'elenco in base all'indirizzo Ethernet.<br>Tuttavia, facendo clic durante la ricerca, questa viene arrestata. |
| <b>5</b> IP Address            | Indirizzo IP.<br>Fare clic sulla colonna per ordinare l'elenco in base all'indirizzo IP.<br>Tuttavia, facendo clic durante la ricerca, questa viene arrestata.                                         |
| <b>6</b> Protocol              | Impostazione di rete della videocamera.<br>L'impostazione predefinita è "IPv4".<br>Le videocamere impostate su IPv6 verranno visualizzate come "IPv6".                                                 |
| <b>7</b> URL                   | Indirizzo URL DDNS che consente l'accesso da una rete esterna.<br>Questo tuttavia viene sostituito con l'<IP Address> della videocamera se la registrazione DDNS non è riuscita.                       |
| <b>8</b> IPv4                  | Ricercal le videocamere impostate su IPv4.                                                                                                                                                             |

| Voce                 | Descrizione                                                                                                                                |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>9</b> IPv6        | Ricerca le videocamere impostate su IPv6.<br>Si attiva esclusivamente in un ambiente compatibile con IPv6.                                 |
| <b>10</b> Search     | Ricerca le videocamere al momento collegate alla rete.<br>Tuttavia questo tasto viene disattivato se non sono selezionati né IPv4 né IPv6. |
| <b>11</b> Auto Set   | IP Installer configura automaticamente le impostazioni di rete.                                                                            |
| <b>12</b> Manual Set | Le impostazioni di rete devono essere configurate manualmente.                                                                             |
| <b>13</b> Exit       | Chiude il programma IP Installer.                                                                                                          |

- Utilizzare la versione più recente di IP Installer. È possibile scaricare l'ultima versione dal sito Web Hanwha Vision.
- Se il Sistema Operativo supportato è Windows 8.1, si raccomanda di utilizzare Wisenet Device Manager al posto dell'IP Wisenet. Il programma Wisenet Device Manager può essere scaricato visitando il sito web Hanwha Vision (<https://www.HanwhaVision.com>) sotto il menu <Support> - <Online Tool>.

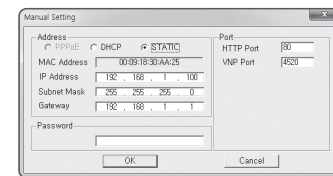
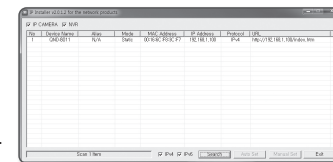
## IMPOSTAZIONE DELL'IP STATICO

### Configurazione manuale della rete

Eseguire <IP Installer\_v2.XX.exe> per visualizzare l'elenco di ricerca delle videocamera.  
Al primo avvio sia [Auto Set] che [Manual Set] sono disattivati.

- Nelle videocamere trovate con impostazione IPv6, questi tasti sono disabilitati dato che le videocamere non supportano questa funzione.

- Selezionare una videocamera dell'elenco di ricerca.  
Controllare l'indirizzo MAC della videocamera sull'etichetta della videocamera.  
I tasti [Auto Set] e [Manual Set] sono entrambi attivati.
- Fare clic su [Manual Set].  
Viene visualizzata la finestra di dialogo Impostazione Manuale.  
<IP Address>, <Subnet Mask>, <Gateway>, <HTTP Port>, e <VNP Port> della telecamera sono visualizzati nei valori attuali.
- Nel riquadro <Address> inserire le informazioni necessarie.
  - MAC (Ethernet) Address : L'indirizzo MAC stampato sull'etichetta della videocamera viene visualizzato automaticamente e non richiede impostazioni da parte dell'utente.
  - I parametri relativi all'IP possono essere impostati soltanto quando la funzione DHCP non è selezionata.



Se non si usa un router a banda larga

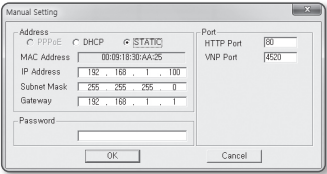
Per l'impostazione di <IP Address>, <Subnet Mask> e <Gateway>, contattare l'amministratore di rete.

4. Inserire le informazioni necessarie nel riquadro <Port>.

- HTTP Port : È utilizzata per accedere alla videocamera utilizzando il browser Internet (impostazione predefinita: 80).
- VNP Port : È utilizzata per controllare il trasferimento del segnale video (impostazione predefinita: 4520).

5. Inserire la password.

Inserire la password dell'account "admin" utilizzato per accedere alla telecamera.



- Per ragioni di sicurezza, è raccomandabile usare una combinazione di numeri, lettere maiuscole e minuscole e caratteri speciali per la creazione della propria password.
- Per informazioni su come modificare la password fare riferimento alla guida online di Web Viewer.

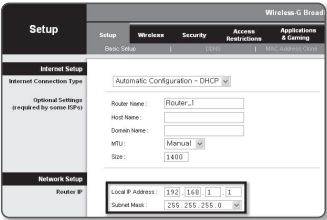
6. Fare clic su [OK].

La configurazione manuale della rete viene completata.

Se si utilizza un router a banda larga

- IP Address : Inserire un indirizzo compreso nell'intervallo di IP fornito dal router a banda larga.  
Es) 192.168.1.2~254, 192.168.0.2~254, 192.168.XXX.2~254
- Subnet Mask : La <Subnet Mask> del router a banda larga sarà la <Subnet Mask> della videocamera.
- Gateway : Il <Local IP Address> del router a banda larga sarà il <Gateway> della videocamera.

- Le impostazioni possono differire a seconda del modello di router a banda larga collegato.  
Per ulteriori informazioni, consultare il manuale utente del router.
- Per ulteriori informazioni sul port forwarding del router a banda larga, vedere "Impostazione dell'inoltro intervallo porte (mappatura della porte)". (Pagina 15)



Se al router a banda larga sono collegate più videocamere

Configurare separatamente le impostazioni relative all'IP e le impostazioni relative alla porta.

Es)

|                                    | Categoria   | Video #1      | Video #2      |
|------------------------------------|-------------|---------------|---------------|
| Impostazioni correlate dell'IP     | IP Address  | 192.168.1.100 | 192.168.1.101 |
|                                    | Subnet Mask | 255.255.255.0 | 255.255.255.0 |
|                                    | Gateway     | 192.168.1.1   | 192.168.1.1   |
| Impostazioni correlate della porta | HTTP Port   | 8080          | 8081          |
|                                    | VNP Port    | 4520          | 4521          |

- Se per <HTTP Port> è stato impostato un valore diverso da 80, è necessario inserire il numero di <Port> nella barra degli indirizzi del browser Internet prima di poter accedere alla videocamera.  
Es) http://Indirizzo IP : HTTP Port  
http://192.168.1.100:8080

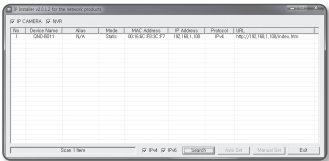
Configurazione automatica della rete

Eseguire <IP Installer\_v2.XX.exe> per visualizzare l'elenco di ricerca delle videocamere.

Al primo avvio sia [Auto Set] che [Manual Set] sono disattivati.

- Nelle videocamere trovate con impostazione IPv6, questi tasti sono disabilitati dato che le videocamere non supportano questa funzione.

1. Selezionare una videocamera dell'elenco di ricerca.  
Controllare l'indirizzo MAC della videocamera sull'etichetta della videocamera.  
I tasti [Auto Set] e [Manual Set] sono entrambi attivati.
2. Fare clic su [Auto Set].  
Viene visualizzata la finestra di dialogo Prog Auto.  
<IP Address>, <Subnet Mask> e <Gateway> vengono impostati automaticamente.

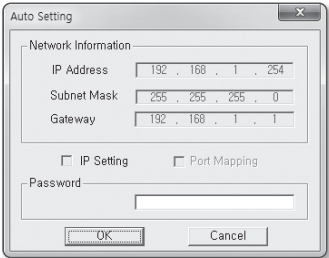


3. Inserire la password.  
Inserire la password dell'account "admin" utilizzato per accedere alla telecamera.

- Per ragioni di sicurezza, è raccomandabile usare una combinazione di numeri, lettere maiuscole e minuscole e caratteri speciali per la creazione della propria password.
- Per informazioni su come modificare la password fare riferimento alla guida online di Web Viewer.

4. Fare clic su [OK].

La configurazione automatica della rete viene completata.



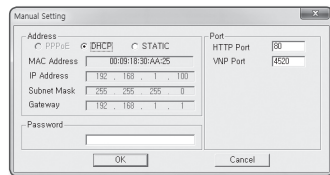
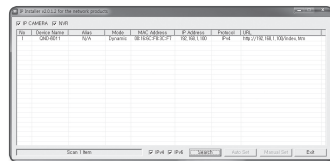
## CONFIGURAZIONE IP DINAMICO

### Configurazione dell'ambiente dell'IP dinamico

- Esempio di ambiente dell'IP dinamico
  - Se al router a banda larga a cui sono collegate le videocamere è assegnato un indirizzo IP da parte del server DHCP
  - Se si collega la videocamera direttamente al modem usando i protocolli DHCP
  - Se gli IP sono assegnati dal server DHCP interno tramite LAN

### Selezione dell'IP dinamico

1. Eseguire IP Installer sul computer locale dell'utente.  
Nell'elenco sono visualizzate videocamere con assegnazione di <Dynamic IP>.
2. Selezionare una videocamera dai risultati della ricerca.
3. Fare clic sul pulsante [Manual Set] e controllare l'indirizzo <Dynamic IP> della videocamera.  
Deselezionando <DHCP>, è possibile cambiare l'IP in <Static>.

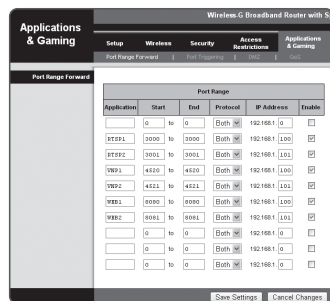


## IMPOSTAZIONE DELL'INOLTRO INTERVALLO PORTE (MAPPAT URA DELLA PORTE)

Se è stato installato un router a banda larga a cui è collegata una videocamera, impostare l'inoltro intervallo porte sul router a banda larga in modo che un PC remoto possa accedere alla videocamera in esso.

### Inoltro intervallo porte manuale

1. Dal menu di configurazione del router a banda larga, selezionare <Applications & Gaming> - <Port Range Forward>.  
Per impostare l'inoltro intervallo porte per un router a banda larga di terzi, consultare il Manuale utente del router a banda larga in questione.
2. Selezionare <TCP> e <UDP Port> per ogni videocamera collegata al router a banda larga.  
Il numero di ogni porta da configurare al Router IP deve essere impostato in base al numero della porta designata in <Configurazione> - <Basic> - <IP & Porta> nel visualizzatore web della telecamera.



3. A operazione ultimata, fare clic su [Save Settings].  
Le impostazioni vengono salvate.

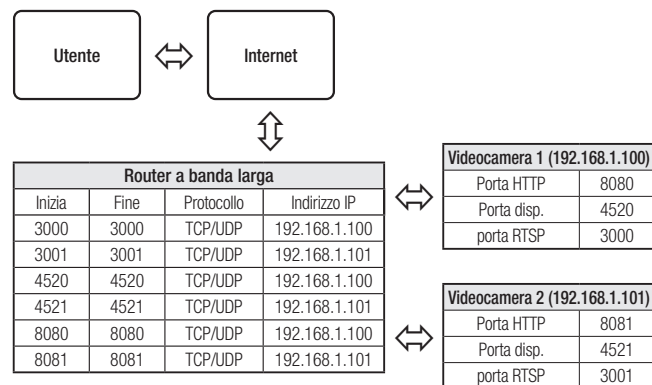


- Le istruzioni campione sopra riportate si basano sul router a banda larga CISCO.
- Le impostazioni possono differire a seconda del modello di router a banda larga collegato.  
Per ulteriori informazioni, consultare il manuale utente del router.

### Impostazione del port range forwarding per più videocamere di rete

- È possibile impostare una regola di inoltro della porta sul router a banda larga, dalla relativa pagina Web di configurazione.
- L'utente potrà cambiare ogni porta utilizzando la schermata di configurazione della telecamera.

Quando la videocamera 1 e la videocamera 2 sono collegate a un router :



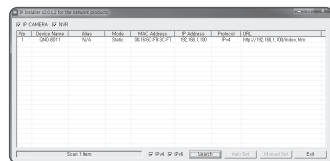
- L'inoltro della Porta può essere effettuato senza un'ulteriore configurazione del router se questo supporta la funzione UPnP (Universal Plug and Play).  
Dopo aver collegato la telecamera, impostare <Connessione rapida> di <DDNS> a <On> nel menu "Configurazione → Rete → DDNS".

## COLLEGAMENTO ALLA VIDEOCAMERA DA UN PC LOCALE CONDIVISO

1. Eseguire IP Installer.  
Vengono ricercate le videocamere collegate e ne viene visualizzata una lista.
2. Fare doppio clic sulla videocamera a cui accedere.  
Il browser Internet viene avviato e si collega alla videocamera.



- È anche possibile accedere alla videocamera digitando l'indirizzo IP della videocamera trovata nella barra degli indirizzi del browser Internet.



## COLLEGAMENTO ALLA VIDEOCAMERA DA UN PC REMOTO TRAMITE INTERNET

Poiché l'uso di IP Installer su un computer remoto non incluso nel cluster di rete del router a banda larga non è consentito, gli utenti possono accedere alle videocamere all'interno di una rete del router a banda larga utilizzando l'URL DDNS della videocamera.

1. Prima di accedere alla videocamera nella rete del router a banda larga, bisogna aver impostato l'intervallo porte per il router a banda larga.
2. Dal PC remoto, avviare il browser Internet e digitare l'indirizzo URL DDNS della videocamera o l'indirizzo IP del router a banda larga nella barra degli indirizzi.  
Es) <http://ddns.hanwha-security.com/ID>

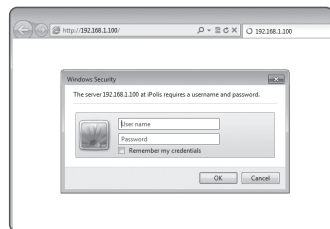


- Per informazioni su come effettuare la registrazione DDNS, fare riferimento alla guida sulla configurazione della rete.

## COLLEGAMENTO ALLA VIDEOCAMERA

### Caso normale

1. Avviare il browser Internet.
2. Digitare l'indirizzo IP della videocamera nella barra degli indirizzi.  
Es) • Indirizzo IP (IPv4) : 192.168.1.100 → <http://192.168.1.100>  
- Si apre la finestra di dialogo di accesso.  
• Indirizzo IP (IPv6) : 2001:230:abcd:ffff:0000:0000:ffff:1111  
→ [http://\[2001:230:abcd:ffff:0000:0000:ffff:1111\]](http://[2001:230:abcd:ffff:0000:0000:ffff:1111])  
- Si apre la finestra di dialogo di accesso.



### Se la porta HTTP è diversa da 80

1. Avviare il browser Internet.
2. Digitare l'indirizzo IP e il numero di porta HTTP della videocamera nella barra degli indirizzi.  
Es) Indirizzo IP : 192.168.1.100:numero porta HTTP(8080)  
→ <http://192.168.1.100:8080> - Si apre la finestra di dialogo di accesso.

### Utilizzo dell'URL

1. Avviare il browser Internet.
2. Digitare l'URL DDNS della videocamera nella barra degli indirizzi.  
Es) Indirizzo URL : <http://ddns.hanwha-security.com/ID>  
- Si apre la finestra di dialogo di accesso.



La connessione di rete è disabilitata in un ambiente di connessione di rete che funziona soltanto tramite la LAN.

### Connessione tramite UPnP

1. Avviare il sistema operativo oppure il sistema client a supporto del protocollo UPnP.
2. Fare clic sul nome della telecamera per avviare la ricerca.  
Nel sistema operativo di Windows, fare clic sul nome della telecamera che appare nei risultati della ricerca nel menu della rete.  
- Viene visualizzata la finestra per l'accesso.

### Connessione tramite Bonjour

1. Avviare il sistema operativo oppure il sistema client a supporto del protocollo di Bonjour.
2. Fare clic sul nome della telecamera per avviare la ricerca.  
Nel sistema operativo di Macintosh, fare clic sul nome della telecamera che appare nei risultati della ricerca nella finestra di Bonjour di Safari.  
- Viene visualizzata la finestra per l'accesso.

### Per controllare l'indirizzo DDNS

Se la videocamera è collegata direttamente a un modem via cavo DHCP o a un modem DSL, l'indirizzo IP della rete cambia ogni volta che si tenta di connettersi al server dell'ISP (Internet Service Provider). In questo caso, l'utente non viene informato che l'indirizzo IP è cambiato dal DDNS.

Una volta registrato un dispositivo con IP dinamico nel server DDNS, è possibile controllare facilmente l'IP cambiato quando si prova ad accedere al dispositivo.

Per registrare il dispositivo sul server <DDNS>, visitare il sito <http://ddns.hanwha-security.com> e, per prima cosa, registrare il dispositivo. Quindi impostare <Rete> - <DDNS> del visualizzatore Web su <DDNS> e inserire il <ID prodotto> precedentemente utilizzato per la registrazione del DDNS.

## CONFIGURAZIONE DELLA PASSWORD

Quando si effettua l'accesso al prodotto per la prima volta, è necessario registrare la password di accesso. Quando appare la finestra per la "Modifica della password", immettere la nuova password.



- Per una nuova password da 8 a 9 cifre, è necessario usare almeno 3 dei seguenti elementi: lettere maiuscole/minuscole, numeri e caratteri speciali. Per una password da 10 a 15 cifre, è necessario utilizzare almeno 2 degli elementi precedentemente elencati.
  - Caratteri speciali permessi: ~!@#\$%^&\*()\_+=|{};:?,./
- Per ottenere un maggiore livello di sicurezza, non è raccomandabile usare ripetutamente gli stessi caratteri oppure lettere consecutive nella tastiera.
- Se la password è stata smarrita, è possibile premere il pulsante [RESET] per ripristinare il prodotto. Di conseguenza, non è consigliabile usare un promemoria per ricordare la propria password o memorizzarla semplicemente.

**Administrator password change**

New password:

Confirm new password:

. If the password is 8 to 9 letters long, then it should be a combination of at least three types upper/lower case alphabets, numbers and special characters.  
 . If the password is 10 to 15 letters long, then it should be a combination of at least two types upper/lower case alphabets, numbers and special characters.  
 . User name should be different from password.  
 . The following special characters are available for use: ~!@#\$%^&\*()\_+=|{};:?,./  
 . Don't use 4 or more characters consecutive together. (examples: 1234, abcq)  
 . Don't use 4 or more characters repeated. (examples: III, 1111, aaaa)

## ACCESSO

Ogni volta che si accede alla telecamera, appare la finestra di login. Inserire l'ID utente e la password per accedere alla telecamera.

1. Inserire "admin" nella casella <User name>. L'ID dell'amministratore, "admin", è fisso e non può essere cambiato.
2. Immettere la password nel campo di inserimento per la <Password>.
3. Fare clic su [OK].  
Se l'accesso è avvenuto correttamente, appare la schermata Live Viewer.

Windows Security

The server 192.168.1.100 at iPolis requires a username and password.

User name:

Password:

☐ Remember my credentials

OK Cancel



- Quando si esegue l'accesso al visualizzatore del web della telecamera, è consigliabile, per motivi di sicurezza, indicare se i dati dell'immagine sono crittografati o no.



- Se si attiva l'opzione "Remember my credentials" dopo aver completato l'inserimento, dalla volta successiva l'accesso avviene automaticamente, senza la richiesta di inserire le informazioni di accesso.
- La qualità video sarà al massimo se la dimensione dello schermo è al 100%. Riducendo il formato si rischia di tagliare l'immagine sui bordi.

## CONFIGURAZIONE DI CAMERA WEB VIEWER

1. Fare clic sull'icona [Impostazioni (⚙)].
2. Verrà visualizzata la finestra delle impostazioni.
3. È possibile configurare le impostazioni per le informazioni di base della videocamera, video, audio, rete, eventi, analisi e sistema sulla rete.
4. Fare clic su <Aiuto (?)> per visualizzare le descrizioni dettagliate di ciascuna funzione.

## RICERCA DEGLI ERRORI

| PROBLEMA                                                                                                                 | SOLUZIONE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Non viene visualizzato alcun video quando si accede al visualizzatore del web senza plug-in su Safari via HTTPS.         | <ul style="list-style-type: none"> <li>Sulla finestra a comparsa per l'autenticazione, che appare quando si accede per la prima volta al https, fare clic su "Visualizza certificato di autenticazione" e selezionare la casella di selezione "Autorizza sempre quando ci si collega all'IP del visualizzatore del web designato".</li> <li>Se anche dopo aver selezionato "Successivo" il visualizzatore del web non riproduce il video, premere il tasto Command + Q per uscire dal Browser di Safari. Poi, eseguire nuovamente l'accesso e ripetere la procedura elencata qui sopra.</li> </ul> |
| Non è possibile accedere alla videocamera da un browser web.                                                             | <ul style="list-style-type: none"> <li>Controllare che le impostazioni di rete della videocamera siano appropriate.</li> <li>Controllare che i cavi di rete siano stati collegati correttamente.</li> <li>Se si connette usando DHCP, verificare che la videocamera sia capace di acquisire gli indirizzi IP senza problemi.</li> <li>Se la videocamera è collegata ad un router a banda larga, verificare che la portadi inoltro sia configurata.</li> </ul>                                                                                                                                      |
| Il visualizzatore si è scollegato durante il monitoraggio.                                                               | <ul style="list-style-type: none"> <li>I visualizzatori collegati si disconnettono dopo il cambiamento alla videocamera o configurazioni di rete.</li> <li>Controllare i collegamenti di rete.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                          |
| Non verrà visualizzato alcun video durante il primo accesso al visualizzatore del web o connessione streaming al client. | <ul style="list-style-type: none"> <li>Il numero massimo di profili disponibili è pari a 3. Se si utilizzano 4 o più profili, la connessione potrebbe interrompersi. Esempio) se si esegue l'accesso a MJPEG, H.264 e H.265 e poi si esegue l'accesso con un profilo diverso, la connessione potrebbe interrompersi.</li> </ul>                                                                                                                                                                                                                                                                    |
| La videocamera collegata alla rete non è rilevata nel programma di installazione IP.                                     | <ul style="list-style-type: none"> <li>Spegnere le impostazioni di firewall sul PC e poi cercare ancora la videocamera.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Le immagini si sovrappongono.                                                                                            | <ul style="list-style-type: none"> <li>Controllare se due o più videocamere siano impostate su un singolo indirizzo multicast invece di diversi indirizzi. Se un singolo indirizzo è usato per videocamere multiple, le immagini possono sovrapporsi.</li> </ul>                                                                                                                                                                                                                                                                                                                                   |
| Nessuna immagine appare.                                                                                                 | <ul style="list-style-type: none"> <li>Se il metodo di trasmissione è impostato a multicast, controllare se c'è un router che supporta multicast nella videocamera LAN collegata.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                       |

| PROBLEMA                                                                                                                                            | SOLUZIONE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <Rilevazione del movimento> in <Analytics> è impostato su <Attiva>, ma non ricevo notifiche e-mail neanche quando si verifica un evento di analisi. | <ul style="list-style-type: none"> <li>Verificare le impostazioni nella sequenza indicata in basso: <ul style="list-style-type: none"> <li>A. Verificare le impostazioni di &lt;Data e ora&gt;.</li> <li>B. &lt;Rilevazione del movimento&gt; deve essere impostato su &lt;Attiva&gt;.</li> <li>C. Verificare che l'opzione &lt;E-mail&gt; nel menu &lt;Imp. evento&gt; sia selezionata.</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Impossibile registrare sulla scheda di memoria Micro SD.                                                                                            | <ul style="list-style-type: none"> <li>Verificare che la scheda di memoria non sia difettosa.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| La scheda di memoria Micro SD è inserita, ma la videocamera non funziona correttamente.                                                             | <ul style="list-style-type: none"> <li>Verificare che la scheda di memoria sia inserita nella direzione corretta. Il funzionamento delle schede di memoria formattate da altri dispositivi non è garantito su questa videocamera</li> <li>Riformattare la scheda di memoria nel menu &lt;Configurazione&gt; → &lt;Evento&gt; → &lt;Memorizz.&gt;.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Impossibile eseguire la registrazione nel NAS.                                                                                                      | <ul style="list-style-type: none"> <li>Confermare che l'informazione registrata nel NAS è corretta.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Informa che la configurazione NAS non è andata a buon fine.                                                                                         | <ul style="list-style-type: none"> <li>Verificare che l'indirizzo IP e NAS siano validi.</li> <li>Verificare che ID/Password del NAS siano validi.</li> <li>Verificare di avere accesso alla cartella scelta come cartella base utilizzando l'ID del NAS.</li> <li>Confermare che gli elementi NAS SMB/CIFS non siano selezionati.</li> <li>Confermare che l'indirizzo IP del NAS e l'indirizzo IP della telecamera siano nello stesso formato. Es) Il valore iniziale del NAS &amp; della subnet mask della telecamera è uguale a 255.255.255.0. Se l'indirizzo IP è 192.168.20.32 allora l'indirizzo IP del NAS deve trovarsi entro l'intervallo di 192.168.20.1~192.168.20.255.</li> <li>Verificare se si è provato ad effettuare l'accesso con un nome utente diverso senza formattare la cartella base salvata o in utilizzo.</li> <li>Verificare di aver utilizzato l'apparecchiatura NAS consigliata.</li> </ul> |

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|--------------------|---------|--------------------------------------------|
| Base Kernel        | GPL 2.0 |                                            |
| Busybox            | GPL 2.0 | http://www.busybox.net/downloads/snapshots |
| iproute2-4.3.0     | GPL 2.0 |                                            |
| iptables-1.4.21    | GPL 2.0 | http://ftp.netfilter.org/pub/iptables      |
| ethtool-4.2        | GPL 2.0 |                                            |
| mtdd-1.5.2         | GPL 2.0 | ftp://ftp.infradead.org/pub/mtdd-utils     |
| mi-diag-2.11       | GPL 2.0 |                                            |
| rp-pppoe-3.11      | GPL 2.0 | http://www.roaringpenguin.com/pppoe/       |
| wpa_supplicant-2.5 | GPL 2.0 |                                            |
| bash-4.3.30        | GPL 3.0 |                                            |
| zeroconf           | GPL 2.0 |                                            |

### LGPL SW

| Component Name | License  | URL                         |
|----------------|----------|-----------------------------|
| glibc          | LGPL 2.0 |                             |
| inetutils      | LGPL 3.0 |                             |
| neon-0.29.6    | LGPL 2.0 | http://www.webdav.org/neon/ |

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revised on June 17, 2004  
revised on December 21, 2006  
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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).



La tutela dell'ambiente è molto importante per Hanwha Vision, che ne tiene conto in ogni fase della fabbricazione dei suoi prodotti ed è alla ricerca costante di nuove soluzioni per fornire al cliente prodotti sempre più rispettosi dell'ambiente.

Il marchio Eco rappresenta la dedizione di Hanwha Vision nel creare prodotti nel rispetto dell'ambiente e indica che il prodotto soddisfa la Direttiva EU RoHS.



#### Corretto smaltimento del prodotto (rifiuti elettrici ed elettronici)

(Applicabile nell'Unione Europea e in altri paesi europei con sistema di raccolta differenziata)

Il marchio riportato sul prodotto, sugli accessori o sulla documentazione indica che il prodotto e i relativi accessori elettronici (quali caricabatterie, cuffia e cavo USB) non devono essere smaltiti con altri rifiuti domestici al termine del ciclo di vita. Per evitare eventuali danni all'ambiente o alla salute causati dall'inopportuno smaltimento dei rifiuti, si invita l'utente a separare il prodotto e i suddetti accessori da altri tipi di rifiuti e a riciclarli in maniera responsabile per favorire il riutilizzo sostenibile delle risorse materiali.

Gli utenti domestici sono invitati a contattare il rivenditore presso il quale è stato acquistato il prodotto o l'ufficio locale preposto per tutte le informazioni relative alla raccolta differenziata e al riciclaggio per questo tipo di materiali.

Gli utenti aziendali sono invitati a contattare il proprio fornitore e verificare i termini e le condizioni del contratto di acquisto. Questo prodotto e i relativi accessori elettronici non devono essere smaltiti unitamente ad altri rifiuti commerciali.



#### Corretto smaltimento delle batterie del prodotto

(Applicabile nei paesi dell'Unione Europea e in altri paesi europei con sistemi di conferimento differenziato delle batterie.)

Il marchio riportato sulla batteria o sulla sua documentazione o confezione indica che le batterie di questo prodotto non devono essere smaltite con altri rifiuti domestici al termine del ciclo di vita. Dove raffigurati, i simboli chimici Hg, Cd o Pb indicano che la batteria contiene mercurio, cadmio o piombo in quantità superiori ai livelli di riferimento della direttiva UE 2006/66. Se le batterie non vengono smaltite correttamente, queste sostanze possono causare danni alla salute umana o all'ambiente.

Per proteggere le risorse naturali e favorire il riutilizzo dei materiali, separare le batterie dagli altri tipi di rifiuti e riciclarle utilizzando il sistema di conferimento gratuito previsto nella propria area di residenza.

